Excecutive Engineer Yelahanka Division

Improvements to roads, drains and other developmental works in Ananthapura Attur Ward No- 03 under SWM head in Chief Minister Nava Nagarothan grants of Yelahanka division.(Package-08)

1	Construction of Samudaya Bhavana in chowdeshwari ward no -02 of yelahanka Sub division
2	Improvements to roads and drains at Ananthapura village limits
3	Improvements to roads and drains at Ananthapura village nisarga layout Limits
4	Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits
5	Improvements to roads and drains at Thiramalanagara layout.

Quantity Abstract (Estimate Wise)

Sl No	Description of Item	Unit	Construction of Samudaya Bhavana in chowdeshwari ward no -02 of yelahanka Sub division	Improvements to roads and drains at Ananthapura village limits	Improvements to roads and drains at Ananthapura village nisarga layout Limits	Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits	Improvements to roads and drains at Thiramalanagara layout.	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x8)+57.	Cum		2065.11	2380.91	2818.48	1806.48	9070.98	220.40	1999243.11
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. Data Rate	Cum			0.00			0.00		0.00
	a) 40mm Jelly	Cum		1.86	1.49	2.48	1.86	7.69	1901.00	14614.89
	b) 20mm Jelly	Cum		1.86	1.49	2.48	1.86	7.69	1901.00	14614.89
	c) Coarse sand.	Cum		1.40	1.12	1.86	1.40	5.77	2651.00	15295.67
	d) Fine Sand	Cum		0.93	0.74	1.24	0.93	3.84	2651.00	10190.44
	e) 12.5mm chips	Cum		1.40	1.12	1.86	1.40	5.77	1901.00	10961.17
3	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)	m		27.00	21.60	36.00	27.00	111.60	10822.32	1207770.91
4	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge. Data Rate	Sqm		4.65	3.72	6.20	4.65	19.22	71.03	1365.20
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)	Cum		289.47	401.55	420.99	299.69	1411.70	5505.64	7772284.46

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			1	2	3	4	5			
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)	Cum		580.24	778.68	845.29	601.71	2805.91	7070.20	19838316.60
7	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)	Ton		35.68	47.10	51.35	36.65	170.78	72326.98	12352134.73
8	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm		67.20	27.84	50.64	53.10	198.78	5418.00	1076990.04
9	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting , including form work, cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm		1510.20	2161.80	2248.20	1591.20	7511.40	2337.00	17554141.80
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(P.No-13,I No-4.6)	Cum		23.08	9.52		24.16	56.76	5747.32	326217.88
11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.(P.No-27,I No-5.30)	Nos		2564.00	1058.00		2684.00	6306.00	432.48	2727218.88
12	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No-180,I No-24.1)	Sqm		461.60	190.40		483.20	1135.20	84.80	96264.96
13	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143) 10km lead = (1.28x2x10)	Cum		212.40	0.00	441.00	387.00	1040.40	64.26	66856.10
14	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)	Sqm		708.00	0.00	1470.00	1290.00	3468.00	6.36	22056.48

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15	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)	Cum		207.21	178.97	240.18	208.13	834.48	1994.92	1664720.84
16	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)	Cum		310.82	268.45	360.27	312.19	1251.72	2001.28	2505042.20
17	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)	Sqm		1381.40	1193.10	1601.20	1387.50	5563.20	33.92	188703.74
18	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)	Cum		69.07	59.66	80.06	69.38	278.16	7428.48	2066306.00
19	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)	Sqm		2781.40	5291.50	1696.40	1660.50	11629.80	12.72	147931.06
20	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12)	Cum		104.18	211.66	61.16	53.52	430.51	8699.42	3745204.70
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)	Sqm		107.40	192.60	68.40	56.00	424.40	454.74	192991.66

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			1	2	3	4	5			
22	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. complete, all as per specification and direction of the Engineer-in-Charge including the cost and conveyance of all materials, cost of labour for all items of work, equipment and other incidental charges for the successful completion of the work.	Cum	220.73					220.73	322.92	71279.42
23	Earth Filling to the sides of foundation and basement with available excavated & approved earth (excluding rock), including watering, tamping and compaction in layers of 15 cms. thick with all lead and lift and as directed by the Engineer-in-charge including the cost of labour for all items of work, equipment and other incidental charges for the successful completion of the work.	Cum	285.36					285.36	217.08	61945.51
24	Providing and Injecting chemical emulsion for Pre-constructional Anti-termite Treatment by supplying and spraying chemicals chloropyriphos emulsifiable concentrates of 20% concentration, as per IS:6313-1981 and in accordance with manufacturer's specifications with lead and lift for all materials, creating a chemical barrier under and alround the column pits, wall trenches, basement excavations, top surface of plinth, junction of wall and floor, along the external perimeter of building, expansion joints, surroundings of pipes and conduits etc., complete including cost and conveyance of all materials and other incidental charges and as per the directions of the Engineer-in-Charge. (Plinth area of the building at the ground floor only shall be measured).	Sqm	242.44					242.44	114.48	27754.53
25	KSRB 4-1.7 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	56.50					56.50	5733.72	323963.78
26	Providing and laying in position plain cement concrete of mix 1:2:4 using 20mm and downsize clean hard graded jelly of selected quality and clean sieved approved sand for Plinth course, String or Lacing courses, Copings, Sills, Bed Blocks, Anchor Blocks etc. including machine mixing, finishing with necessary formwork, laying, curing etc. complete, cost and conveyance of all materials, labour, HOM of machinery and all other incidental charges and as per directions of the Engineer-in-charge of the work.	Cum	13.12					13.12	5855.76	76804.15
27	First Floor Sills	Cum	2.84					2.84	5920.56	16803.73

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			1	2	3	4	5			
28	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20, with 20mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters,columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window Sills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. and directions of Engineer-in-charge for the successful completion of the work. (excluding centering & shuttering works, cost of steel & fabrication charges).	Cum	21.10					21.10	6111.72	128960.35
29	For Columns, with RCC 1:1:2 mix concrete	Cum	77.39					77.39	6276.96	485787.74
30	First floor	Cum	61.29					61.29	6341.76	388686.47
31	For Lintels with RCC 1:1.5:3 mix concrete	Cum	4.94					4.94	6363.36	31409.54
32	First Floor	Cum	4.94					4.94	6428.16	31729.40
33	Providing and removing centering, shuttering. strutting, proping etc. and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.	Sqm	97.96					97.96	278.64	27296.13
34	Providing and removing centering, shuttering. strutting, proping etc. and removal of form work for columns, pillars, piers, abutments, posts and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications.	Sqm	68.64					68.64	492.48	33803.83
35	First floor	Sqm	68.64					68.64	519.48	35657.11
36	Providing and removing centering, shuttering. Strutting, proping etc. and removal of form work for sides & soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1.0m in depth including cost of all materials, labour complete as per specifications.	Sqm	423.24					423.24	315.36	133472.97
37	First floor	Sqm	250.68					250.68	519.48	130223.25
38	Providing and removing centering, shuttering. Strutting, proping etc. and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200mm including cost of all materials, labour complete as per specifications.	Sqm	254.63					254.63	475.20	120997.80
39	First floor	Sqm	254.63					254.63	502.20	127872.68
40	Providing and removing centering, shuttering, strutting, proping etc. and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification.	Sqm	18.72					18.72	561.60	10513.15
41	First floor	Sqm	18.72					18.72	588.60	11018.59

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			1	2	3	4	5			
42	Providing and fabricating Mild steel / High Yield Stength cold twisted Deformed steel bars conforming to IS:1786-1961 (Tor steel) including straightening, cutting, bending, hooking, lapping and / or welding wherever required, placing in position, tieing with binding wire of approved quality and guage including the cost of binding wire and anchoring to the adjoining members wherever necessary including all laps and wastages, cost of conveyance of high yield stength cold twisted deformed bars and binding wire etc. complete as per design, specification and directions of the Engineer-in-charge of the work including cost & conveyance of all materials & other incidental charges, cost of labour for all items of work, HOM of machinery, lead & lift, loading & unloading etc. complete. (laps, hooks and wastages shall not to be measured and paid).	Tn	18.61					18.61	76643.28	1425964.01
43	Providing and constructing granite or basalt Size Stone Masonry, in Foundation & Plinth with CM 1:6 (1 Cement : 6 Coarse sand), stones hammer dressed in courses not less than 20cms. high using through bond stones at 200cm apart in each course including cost and conveyance of all materials and other incidental charges, curing etc. complete and all as per specifications and directions of the Engineer-in-charge of the work.	Cum	35.78					35.78	4963.68	177620.33
44	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 havinga minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. - do - with solid concrete blocks of size 400x200x200mm	Sqm	300.07					300.07	1038.96	311755.53
45	First Floor	Sqm	300.07					300.07	1076.76	323097.99
46	Terrace Floor	Sqm	103.32					103.32	1114.56	115156.34
47	KSRB 5-15: Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications.	Sqm	57.36					57.36	875.88	50236.10
48	First Floor	Sqm	57.36					57.36	913.68	52404.12
49	KSRB 15-3.14/15-7: Providing 12mm thick plain plastering in single coat to internal ceiling & RC surfaces in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.	Sqm	382.46					382.46	243.00	92938.39
50	First Floor	Sqm	382.46					382.46	249.48	95416.74
51	Second Floor	Sqm	25.00					25.00	255.96	6399.00
52	KSRB 15-3.5/15-7: Providing 15mm thick plain plastering in single coat to internal masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc.including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.	Sqm	608.84					608.84	273.24	166360.34

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			1	2	3	4	5			
53	First Floor	Sqm	608.84					608.84	286.20	174250.95
54	KSRB 15-3.5/15-4.7: Providing 15mm thick plain plastering in single coat to external masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & mixing water proofing compound of approved quality and make as admixture to cement mortar as per manufacturer's specifications, providing & removing necessary scaffolding, rounding of corners wherever required, sponge finishing, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.	Sqm	325.28					325.28	248.40	80799.06
55	First Floor	Sqm	325.28					325.28	261.36	85014.65
56	KSRB 15-5.1: Providing 15mm thick rough plastering in single coat to internal / external surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including finishing rough to receive tiling work, providing & removing necessary scaffolding, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer. for Ground floor	Sqm	62.40					62.40	221.40	13815.36
57	First Floor	Sqm	62.40					62.40	227.88	14219.71
58	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.. with primer Internal Masonry wall surfaces	Sqm	2007.61					2007.61	181.44	364261.05
59	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges etc., complete as per directions of the Engineer-in-charge of the work.	Sqm	325.28					325.28	474.12	154220.81
60	First floor	Sqm	325.28					325.28	478.44	155626.01
61	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Sqm	27.36					27.36	146.88	4018.64
62	First floor	Sqm	27.36					27.36	155.52	4255.03

Sl No	Description of Item	Unit	Unstr...tio n of Samudaya Bhavana In chowdeshwari ward no - 02 of yelahanka Sub division	Improvements to roads and drains at Ananthapura village limits	Improvements to roads and drains at Ananthapura village nisarga layout Limits	Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits	Improvements to roads and drains at Thiramalanagara layout.	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
63	Providing and laying flooring with Vitrified tiles of size 600mm x 600mm and of 10mm minimum thick of first quality and of approved make & sample, conforming to IS specifications, laid on a bed of 12mm thick cement mortar 1:3 (1 cement : 3 fine sand) with a thin coat of cement slurry on a prepared bed / floor slabs including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.	Sqm	120.00					120.00	1054.08	126489.60
64	First Floor	Sqm	120.00					120.00	1056.24	126748.80
65	Providing and fixing dadoing with Glazed tiles of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.	Sqm	62.40					62.40	1372.68	85655.23
66	First Floor	Sqm	62.40					62.40	1374.84	85790.02
67	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications.-do- using silver grey granite/Multy Red/Ruby Red/Black/ Hassan Green Granite of width not less than 1200mm.	Sqm	82.14					82.14	2958.12	242979.98
68	First Floor	Sqm	82.14					82.14	2960.28	243157.40
69	"Providing and fixing skirting of 100mm high using prepolished water cut/gang saw of 19mm thick grey granite 0.5mm wide chamfered width and depth and fixing in CM 1:4 of 20mm thick after chipping the walls etc., & Providing half nosing for 20mm thick granite slab using required machinery including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.	Sqm	157.60					157.60	1014.12	159825.31
70	First floor	Sqm	157.60					157.60	1016.28	160165.73
71	KSRB 9.4-2: Providing Red Sal wood frames for doors, wrought, framed or assembled including making plaster grooves (excluding cost of concrete and side clamps) including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer. (samples to be got approved before execution).	Sqm	2.54					2.54	65463.12	166145.40

Sl No	Description of Item	Unit	Construction of Samudaya Bhavana in chowdeshwari ward no - 02 of yelahanka Sub division	Improvements to roads and drains at Ananthapura village	Improvements to roads and drains at Ananthapura village nisarga layout Limits	Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits	Improvements to roads and drains at Thiramalanagara layout.	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
72	Fixing of Door frames in an existing opening including embedding frame in floor and walls after cutting masonry for embedding holdfasts including providing & fixing 3/4 of MS hold fasts of size 200x20x3mm for each side and fixed to the frame and embeded with PCC 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size), painting two coats of coal tar to sides of frames, making good the damages to walls & floor as required and disposal of debris including cost of materials, labour, HOM of machineries complete as per specifications all as per the drawing and as per the directions of the Engineer in-charge of the work.	Cum	15.00					15.00	1475.28	22129.20
73	First Floor	Cum	15.00					15.00	1479.60	22194.00
74	Providing and fixing in position panelled shutters for doors made out of honnewood styles and rails of 40mm thick with bottom and lock rails 180mm wide, top rail and styles 100mm wide and panels of 18mm thick of exterior grade plain particle board, fixed with necessary teakwood beading including cost of materials, labour, HOM of machineries complete as per specifications with all lead & lift, loading & unloading and all other incidental charges etc. all as per the drawing and as per the directions of the Engineer-in-charge of the work (excluding cost of fixtures).	Sqm	16.38					16.38	3811.32	62429.42
75	First Floor	Sqm	16.38					16.38	3815.64	62500.18
76	Providing and fixing rigid PVC multi chamber hollow section for door and with profile of extruded section stipulated as per I.S 130034-1990, frames should be of size 50x50x2.5 mm, Weight 0.79 Kg / meter and double wall EPDM gasket reinforced with electrogalvanised cold rolled sheet chambers of size 25x17x1.6 mm, Weight 0.90 Kg / meter, multi chamber section assembled to the required galvanised steel of 10 mm dia. outer edge of shutter to be provided with P.V.C channels of size 35x35x2 mm, Weight of 0.31 Kg / meter, having interlocking facility including fixtures like Aluminium Aldrop, Tower bolts, door handles etc., all complete as per the directions of the Engineer-in-charge of the project.	Sqm	12.60					12.60	3510.00	44226.00
77	First Floor	Sqm	12.60					12.60	3514.32	44280.43
78	KSRB 7.8 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 ems. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM complete as per specifications.	Sqm	27.36					27.36	3594.24	98338.41
79	First floor	Sqm	27.36					27.36	3600.72	98515.70

Sl No	Description of Item	Unit	Construction of Samudaya Bhavana in chowdeshwari ward no - 02 of yelahanka Sub division	Improvements to roads and drains at Ananthapura village limits	Improvements to roads and drains at Ananthapura village nisarga layout Limits	Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits	Improvements to roads and drains at Thiramalanagara layout.	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
80	Providing and fixing MS grill work for windows and ventilators weighing 21 kgs./ sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-in-Charge of work.with all lead & lift, loading & unloading and all other incidental charges etc.	Kg	574.56					574.56	102.60	58949.86
81	First floor	Kg	574.56					574.56	109.08	62673.00
82	Providing & applying water proofing to concrete surfaces using high quality polymer-modified bituminous compounds (confirming to ASTM Sqm D 5147) reinforced with non woven polyester fabric, weighing 180gml sqm granular finish 4mm thick by torch on application method confirming to the properties indicated below. It shall be provided after priming the surface using bitumen primer at 0.2 ltr Isqm. Detailed specification & Methodology 1. Membrane thickness 4mm (+ or - 5%) 2. Tensile strength - Longitudinal 790 N15cm Transverse 730 N15cm 3. Elongation of Membrane - Longitudinal 65% Transverse 69% 4. Tear Resistance - Longitudinal 180 N Transverse 190 N 5. Lap joint strength - Longitudinal 750 N15cm Transverse 550 N15cm 6. Puncture Resistance - Static 1.4 Dynamic 1.3 7. Water absorption - < 0.15% 8. Water permeability - Nil 9. Chemical resistance - Chloride, sulphate and Nitrate The area to be water proofed shall be free from loose aggregate, dust free and in dry condition. Primer must be applied to the surface and allowed to dry prior to application of membrane. The membrane shall be applied within 6 hours after application of primer. The membrane comes in a roll form shall be	Sqm	220.66					220.66	464.40	102474.50
83	KSRB 13-11.1: Over Head Synthetic Tanks - Providing, Placing on Terrace, Polyethylene storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diametre for inlet,outlet and over flwo pipes including cost of all materials, labour, transport charges, HOM of euipments and testing complete as per specifications for 2000 Litres Capcity including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.	Nos	1.00					1.00	7374.24	7374.24
84	supplying heavy gauge pvc conduit pipe... dia confirming to IS 2509 with suitable size benda. Junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering dameged portion using havey gauge saddles at an intereval of 70mm using NF screws (ELE SR 2019-20 Page-2, Item-1.1.2)	mtr	168.00					168.00	65.00	10920.00
85	Suppling... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc..., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.(ELE SR 2019-20 Page 2, Item-1.2.2)	mtr	168.00					168.00	53.00	8904.00

Sl No	Description of Item	Unit	Construction of Samudaya Bhavana in chowdeshwari ward no-02 of yelahanka Sub division	Improvements to roads and drains at Ananthapura village limits	Improvements to roads and drains at Ananthapura village nisarga layout Limits	Improvements to roads and drains at Ananthapura Mahalakshmi layout Limits	Improvements to roads and drains at Thiramalanagara layout.	Total Quantity as per Estimation	Rate, Rs	Amount, Rs
			1	2	3	4	5			
86	Groove cutting in the wall suppling.. Dia 2mm/2.5mm thick heavy gauge PVC Conduit pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary.(ELE SR 2019-20 Page-2, Item-1.3.2)	mtr	138.00					138.00	54.00	7452.00
87	Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.,.(ELE SR 2019-20 Page-2, Item-1.4.5)	Each	18.00					18.00	111.00	1998.00
88	supplying and fixing PVC/ Metal conduit accessories. (3/5) (ELE SR 2019-20 Page-3, Item-1.5.3)	Each	6.00					6.00	60.00	360.00
89	Suppling and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complet. (ELE SR 2019-20 Page-3, Item-1.6.1-1.6.8)	mtr	60.00					60.00	102.00	6120.00
90	Suppling and wiring adopting loop system in existing PVC Conduit/ casting capping using copper PVC insulated multi strand 2x1.5sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box. The outher end of the wires shall be terminated with sufficient loose lenght in a wood / PVC round block. compelete for each outlet. (ELE SR 2019-20 Page-5, Item-2.1.2)	Each	12.00					12.00	275.00	3300.00
91	Suppling and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos, of machines screws, bolts nuts etc., complete on the existing metal/PVC box,ELE SR 2019-20 Page-9, Item-3.5.3)	No	30.00					30.00	175.00	5250.00
92	Supplying and fixing of 32 Amps security and energy saving DP switch with key tag suitable to operate on 230 volts, 50Hz AC supply and completely wired on existing box. ELE SR 2019-20 Page-10, Item-3.7)	Each	12.00					12.00	680.00	8160.00
93	Wiring for lighting/power circuit using one of pvc insulated 1100v grade, multistrand copper conductor singal core cable in open or concealed system of wiring.ELE SR 2019-20 Page-5, Item-2.3.1-2.3.7)	mtr	516.00					516.00	20.50	10578.00
94	b)6 sqmm	mtr	474.00					474.00	70.00	33180.00
95	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm... Etc as required. ELE SR 2019-20 Page-3, Item-1.8.1)	Each	90.00					90.00	22.00	1980.00
96	Supplying PVC/GI Flexible conduit pipe.. Mm dia fixing on surface over inverted wooden pugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pie terminated completely. ELE SR 2019-20 Page-3, Item-1.9.1)	Each	96.00					96.00	22.00	2112.00
97	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws.. ELE SR 2019-20 Page-10, Item-3.10.2)	Each	96.00					96.00	11.00	1056.00
98	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.99, I.No. 13.86.2 of PWD SR 2018-19)	Rmt	330.00					330.00	242.05	79876.50

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			1	2	3	4	5			
									Construction Cost	84025527.60
									12% GST	10083063.31
									Tender Premium 5%	4201276.38
									DPR and PMC Cost Including GST	1685000.00
									Sub Total	99994867.29
									Miscellaneous	5132.71
									Grand Total	100000000.00

Technical Sanction
Accorded For Rs.10.00cr
Head of A/C. Annexure-5
CER NO : 221 Dt. 08.11.2019

TA CE (YNK)

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, issue rates dated 21-10-2019 and Data Rate

Assistant Engineer
Yelahanka Division
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

Administrative Sanction for Rs. 1000.00 lakhs
Ten crore only
is accorded under head Annexure-5
chief minister navanagarothana
grant
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No EE/YNK/ADS/103/2019-20 Dt. 7/3/2020

Executive Engineer